

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/590,304
Source: DFWP
Date Processed by STIC: 09/01/2006

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 09/01/2006

PATENT APPLICATION: US/10/590,304

TIME: 11:58:14

Input Set : A:\004974.01216 sequence listing.txt

Output Set: N:\CRF4\09012006\J590304.raw

```

4 <110> APPLICANT: Golz, Stefan
5      Brueggemeier, Ulf
6      Geerts, Andreas
7      Weingaertner, Bernard
9 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for
10     Diseases Associated with Glycogen Synthease Kinase 3 Beta
11     (GSK3B)
13 <130> FILE REFERENCE: 004974.01216
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/590,304
C--> 15 <141> CURRENT FILING DATE: 2006-08-23
15 <150> PRIOR APPLICATION NUMBER: EP04004326.7
16 <151> PRIOR FILING DATE: 2004-02-26
18 <150> PRIOR APPLICATION NUMBER: PCT/EP2005/001420
19 <151> PRIOR FILING DATE: 2005-02-12
21 <160> NUMBER OF SEQ ID NOS: 5
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 1639
27 <212> TYPE: DNA
28 <213> ORGANISM: Homo sapiens
30 <400> SEQUENCE: 1
31 atcatctata tgtaaataat ccgtgccgat ctgtcttgaa ggagaaatat atcgcttggt 60
32 ttgtttttta tagtatacaa aaggagtga aagccaagag gacgaagtct ttttcttttt 120
33 cttctgtggg agaacttaat gctgcattta tcgttaacct aacaccccaa cataaagaca 180
34 aaaggaagaa aaggaggaag gaaggaaaag gtgattcgcg aagagagtga tcatgtcagg 240
35 gcggcccaga accacctcct ttgcggagag ctgcaagccg gtgcagcagc cttcagcttt 300
36 tggcagcatg aaagttagca gagacaagga cggcagcaag gtgacaacag tgggtggcaac 360
37 tcctgggcag ggtccagaca ggccacaaga agtcagctat acagacacta aagtgattgg 420
38 aaatggatca tttggtgtgg tatatcaagc caaactttgt gattcaggag aactggtcgc 480
39 catcaagaaa gtattgcagg acaagagatt taagaatcga gagctccaga tcatgagaaa 540
40 gctagatcac tgtaacatag tccgattgcy ttatttcttc tactccagtg gtgagaagaa 600
41 agatgaggtc tatcttaatc tgggtgctgga ctatgttccg gaaacagtat acagagttgc 660
42 cagacactat agtcgagcca aacagacgct ccctgtgatt tatgtcaagt tgtatatgta 720
43 tcagctgttc cgaagtttag cctatatcca ttcccttgga atctgccatc gggatattaa 780
44 accgcagaac ctcttggttg atcctgatac tgctgtatta aaactctgtg actttggaag 840
45 tgcaaagcag ctggtccgag gagaacccaa tgtttcgtat atctgttctc ggtactatag 900
46 ggcaccagag ttgatctttg gagccactga ttatacctct agtatagatg tatggtctgc 960
47 tggctgtgtg ttggctgagc tgttactagg acaaccaata tttccagggg atagtgggtg 1020
48 ggatcagttg gtagaaataa tcaaggtcct ggggaactcca acaagggagc aaatcagaga 1080
49 aatgaaccca aactacacag aatttaaat ccctcaaatt aaggcacatc cttggactaa 1140
50 ggattcgtca ggaacaggac atttcacctc aggagtgcgg gtcttccgac cccgaactcc 1200
51 accggaggca attgcactgt gtatgcgtct gctggagtat acaccaactg cccgactaac 1260
52 accactggaa gcttgtgcac attcatTTTT tgatgaatta cgggacccaa atgtcaaact 1320

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53 accaaatggg cgagacacac ctgcactctt caacttcacc actcaagaac tgtcaagtaa 1380
54 tccacctctg gctaccatcc ttattcctcc tcatgctcgg attcaagcag ctgcttcaac 1440
55 cccacaaaat gccacagcag cgtcagatgc taatactgga gaccgtggac agaccaataa 1500
56 tgctgcttct gcatcagctt ccaactccac ctgaacagtc ccgagcagcc agctgcacag 1560
57 gaaaaaacac cagttacttg agtgtcactc agcaacactg gtcacgtttg gaaagaatat 1620
58 taaaaaaaaa aaaaaaaaaa                                     1639
60 <210> SEQ ID NO: 2
61 <211> LENGTH: 433
62 <212> TYPE: PRT
63 <213> ORGANISM: Homo sapiens
65 <400> SEQUENCE: 2
66 Met Ser Gly Arg Pro Arg Thr Thr Ser Phe Ala Glu Ser Cys Lys Pro
67 1 5 10 15
68 Val Gln Gln Pro Ser Ala Phe Gly Ser Met Lys Val Ser Arg Asp Lys
69 20 25 30
70 Asp Gly Ser Lys Val Thr Thr Val Val Ala Thr Pro Gly Gln Gly Pro
71 35 40 45
72 Asp Arg Pro Gln Glu Val Ser Tyr Thr Asp Thr Lys Val Ile Gly Asn
73 50 55 60
74 Gly Ser Phe Gly Val Val Tyr Gln Ala Lys Leu Cys Asp Ser Gly Glu
75 65 70 75 80
76 Leu Val Ala Ile Lys Lys Val Leu Gln Asp Lys Arg Phe Lys Asn Arg
77 85 90 95
78 Glu Leu Gln Ile Met Arg Lys Leu Asp His Cys Asn Ile Val Arg Leu
79 100 105 110
80 Arg Tyr Phe Phe Tyr Ser Ser Gly Glu Lys Lys Asp Glu Val Tyr Leu
81 115 120 125
82 Asn Leu Val Leu Asp Tyr Val Pro Glu Thr Val Tyr Arg Val Ala Arg
83 130 135 140
84 His Tyr Ser Arg Ala Lys Gln Thr Leu Pro Val Ile Tyr Val Lys Leu
85 145 150 155 160
86 Tyr Met Tyr Gln Leu Phe Arg Ser Leu Ala Tyr Ile His Ser Phe Gly
87 165 170 175
88 Ile Cys His Arg Asp Ile Lys Pro Gln Asn Leu Leu Leu Asp Pro Asp
89 180 185 190
90 Thr Ala Val Leu Lys Leu Cys Asp Phe Gly Ser Ala Lys Gln Leu Val
91 195 200 205
92 Arg Gly Glu Pro Asn Val Ser Tyr Ile Cys Ser Arg Tyr Tyr Arg Ala
93 210 215 220
94 Pro Glu Leu Ile Phe Gly Ala Thr Asp Tyr Thr Ser Ser Ile Asp Val
95 225 230 235 240
96 Trp Ser Ala Gly Cys Val Leu Ala Glu Leu Leu Leu Gly Gln Pro Ile
97 245 250 255
98 Phe Pro Gly Asp Ser Gly Val Asp Gln Leu Val Glu Ile Ile Lys Val
99 260 265 270
100 Leu Gly Thr Pro Thr Arg Glu Gln Ile Arg Glu Met Asn Pro Asn Tyr
101 275 280 285
102 Thr Glu Phe Lys Phe Pro Gln Ile Lys Ala His Pro Trp Thr Lys Asp
103 290 295 300

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```

104 Ser Ser Gly Thr Gly His Phe Thr Ser Gly Val Arg Val Phe Arg Pro
105 305                      310                      315                      320
106 Arg Thr Pro Pro Glu Ala Ile Ala Leu Cys Ser Arg Leu Leu Glu Tyr
107                      325                      330                      335
108 Thr Pro Thr Ala Arg Leu Thr Pro Leu Glu Ala Cys Ala His Ser Phe
109                      340                      345                      350
110 Phe Asp Glu Leu Arg Asp Pro Asn Val Lys Leu Pro Asn Gly Arg Asp
111                      355                      360                      365
112 Thr Pro Ala Leu Phe Asn Phe Thr Thr Gln Glu Leu Ser Ser Asn Pro
113                      370                      375                      380
114 Pro Leu Ala Thr Ile Leu Ile Pro Pro His Ala Arg Ile Gln Ala Ala
115 385                      390                      395                      400
116 Ala Ser Thr Pro Thr Asn Ala Thr Ala Ala Ser Asp Ala Asn Thr Gly
117                      405                      410                      415
118 Asp Arg Gly Gln Thr Asn Asn Ala Ala Ser Ala Ser Ala Ser Asn Ser
119                      420                      425                      430
120 Thr

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124 <210> SEQ ID NO: 3

125 <211> LENGTH: 20

126 <212> TYPE: DNA

127 <213> ORGANISM: Artificial Sequence

129 <220> FEATURE:

130 <223> OTHER INFORMATION: forward primer

133 <400> SEQUENCE: 3

134 ttccagggga tagtggtgtg

20

136 <210> SEQ ID NO: 4

137 <211> LENGTH: 20

138 <212> TYPE: DNA

139 <213> ORGANISM: Artificial Sequence

141 <220> FEATURE:

142 <223> OTHER INFORMATION: reverse primer

145 <400> SEQUENCE: 4

146 tttgctccct tgttgagtt

20

148 <210> SEQ ID NO: 5

149 <211> LENGTH: 30

150 <212> TYPE: DNA

151 <213> ORGANISM: Artificial Sequence

153 <220> FEATURE:

154 <223> OTHER INFORMATION: probe

156 <400> SEQUENCE: 5

157 tcagttggta gaaataatca aggtcctggg

30

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/590,304

DATE: 09/01/2006

TIME: 11:58:15

Input Set : A:\004974.01216 sequence listing.txt

Output Set: N:\CRF4\09012006\J590304.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date